MMM		HHH HHI HHH HHI HHH HHI HHH HHI HHH HHI	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR		
MMM MMM MMM	ΪŤ	нин ин		ŤŤ	iii
MMM MMM MMM	ŤŤŤ	нин ни		ŤŤŤ	iii
MMM MMM MMM	ŤŤŤ	нин ни		ŤŤŤ	iii
MMM MMM	ŤŤ	нининининини		ŤŤŤ	iii
MMM MMM	ŤŤŤ	нининининини		ŤŤŤ	iii
MMM MMM	ŤŤŤ	нининининини		ŤŤŤ	iii
MMM MMM	ŤŤŤ	ннн нн		ŤŤŤ	III
MMM MMM	TTT	ннн нні		ŤŤŤ	III
MMM MMM	TTT	ннн нні		ŤŤŤ	LLL
MMM MMM	TTT	нин ни	RRR RRR	TTT	LLL
MMM MMM	TTT	ннн нні		TTT	LLL
MMM MMM	TTT	нин ни		TTT	LLL
MMM MMM	TTT	ннн нні		TTT	LLLLLLLLLLLLLL
MMM MMM	TTT	нин ни		TTT	LLLLLLLLLLLLLL
MMM MMM	111	ннн нні	RRR RRR	TTT	LLLLLLLLLLLLLLLL

SYMMT MITTER MATTER MAT

MM MM MMM MMM MMM MM MM MM MM MM MM MM	HH H		GGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	NN	NN
	\$				

MT ST AF

PI ICCPASSIPLO AT THE TO

Mi O TI

MTH\$IIGNNT - Nearest Integer 16-SEP-1984 01:42:14 VAX/VMS Macro V04-00 Page 0

(2) 50 HISTORY : Detailed Current Edit History
(3) 58 DECLARATIONS
(4) 84 MTH\$IIGNNT - return nearest integer as INTEGER*2

Ta

.TITLE MTH\$IIGNNT - Nearest Integer .IDENT /1-002/ ; File: MTHIIGNNT.MAR

COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. ALL RIGHTS RESERVED.

THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY TRANSFERRED.

THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT CORPORATION.

DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.

; FACILITY: MATH LIBRARY

: ABSTRACT:

ÖÖÖÖ

ÖÖÖÖ

 Return nearest integer of a G REAL*8 to a INTEGER*2.

VERSION: 1

HISTORY:

AUTHOR:

Steven B. Lionel, 05-Feb-79: Version 1

MODIFIED BY:

```
F 15
      - Nearest Integer 16-SEP-1984 01:42:14 MTH$IIGNNT - return nearest integer as I 6-SEP-1984 11:25:58
                                   .SBTTL MTH$IIGNNT - return nearest integer as INTEGER*2
                    FUNCTIONAL DESCRIPTION:
                           Returns the nearest integer (rounded away from zero) of a G REAL*8 to a INTEGER*2 as a function value.
                           CALLING SEQUENCE:
                                   nearest_int.ww.v = MTH$IIGNNT (arg.rg.r)
                           INPUT PARAMETERS:
00000004
                                   arg = 4
                                                      ; G floating argument
                           IMPLICIT INPUTS:
                                   NONE
                           OUTPUT PARAMETERS:
                                   NONE
                           IMPLICIT OUTPUTS:
                                   NONE
                           FUNCTION VALUE:
                                   nearest_integer - The integer nearest to arg, rounded
                                                         away from zero.
                           SIDE EFFECTS:
                    114
115
116
117
                                   Reserved operand, Integer overflow exceptions.
                    118
119
120
121
122
123
124
125
                                            MTHSIIGNNT,
                                                                <VI>M^
                                   .ENTRY
                                            aarg(AP), RO
RO, RO
                                   CVTRGL
                                                                            RO = rounded arg
                                   CVTLW
                                                                            RO = word result
                                   RET
                                   .END
```

MTHSIIGNNT 1-002 MTH\$IIGNNT - Nearest Integer Symbol table

ARG = 00000004 MTH\$IIGNNT 00000000 RG 01

! Psect synopsis !

PSECT name Allocation PSECT No. Attributes

_MTH\$CODE 00000000 (0.) 00 (0.) NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE OCCUPANT OF THE CODE OCCUPANT OCCUPANT OF THE CODE OCCUPANT OCC

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization Command processing	31 147	00:00:00.09	00:00:01.29
Pass 1 Symbol table sort	77	00:00:00.39	00:00:02.34
Pass 2 Symbol table output	38	00:00:00.29 00:00:00.01	00:00:01.32 00:00:00.02
Psect synopsis output Cross-reference output	200	00:00:00.02	00:00:00.19
Cross-reference output Assembler run totals	298	00:00:00.00	00:00:00.

The working set limit was 750 pages.
1215 bytes (3 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 2 non-local and 0 local symbols.
126 source lines were read in Pass 1, producing 10 object records in Pass 2.
0 pages of virtual memory were used to define 0 macros.

! Macro library statistics !

0

Macro library name

Macros defined

_\$255\$DUA28:[SYSLIB]STARLET.MLB;2

O GETS were required to define O macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS\$:MTHIIGNNT/OBJ=OBJ\$:MTHIIGNNT MSRC\$:MTHIIGNNT/UPDATE=(ENH\$:MTHIIGNNT)

0262 AH-BT13A-SE

DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

